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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,360	09/16/2003	Hirokazu Negishi	03560.003350.	9418
5514 7590 04/05/2007 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
			CHAU, COREY P	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
	•		2615	
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SHORTENED STATUTORY PE	RIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MONTH	e	04/05/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/662,360	NEGISHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Corey P. Chau	2615				
The MAILING DATE of this communication app	·	correspondence address				
Period for Reply	(10.057.70.5VDIDE - MONTH	(O) OD THIRTY (OO) DAYO				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti- rill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status	•	,				
1) Responsive to communication(s) filed on 16 Se	eptember 2003.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims		,				
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) 7-15 is/are withdrawn	from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	r.					
10) ☐ The drawing(s) filed onis/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11) ☐ The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	n)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	·	ed in this National Stage				
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •	- d				
* See the attached detailed Office action for a list of	or the certified copies not receive	ea.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D					
Notice of Draffsperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/27/03.	5) Notice of Informal I					

DETAILED ACTION

Election/Restrictions

- Claims 1-6, drawn to a speaker system, classified in class 381, subclass
 165.
- II. Claims 7-15, drawn to an active indoor low-frequency sound control method and system, classified in class 381, subclass 71.2.
- 1. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination can utilize any speaker system. The subcombination has separate utility such as speaker system used in a vehicle.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such

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claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

2. During a telephone conversation with John Magluyan on 1/12/2007 a provisional election was made without traverse to prosecute the invention of a speaker system, claims 1-6. Affirmation of this election must be made by applicant in replying to this Office action. Claims 7-15 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by USPAPN 20020085723 to Boesch et al. (hereafter as Boesch).
- 5. Regarding Claim 1, Boesch discloses a speaker system, comprising:
 air-current generating means for generating an air-current (Figs. 1-3; column
 pages 1-2, paragraph 0016); and

air-current modulating means for frequency-modulating the air-current generated by the air-current generating means with an audio signal to which the driving of the air-current generating means is input to generate sound waves in accordance with the audio signal (Figs. 1-3; pages 1-2, paragraph 0016).

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6. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 6384550 to Miyakawa et al. (hereafter as Miyakawa).

7. Regarding Claim 1, Miyakawa discloses a speaker system, comprising:
air-current generating means for generating an air-current (Figs. 2, 4-6; column 3, lines 10-41; column 3, line 65 to column 4, line 59); and

air-current modulating means for frequency-modulating the air-current generated by the air-current generating means with an audio signal to which the driving of the air-current generating means is input to generate sound waves in accordance with the audio signal (Figs. 2, 4-6; column 3, lines 10-41; column 3, line 65 to column 4, line 59).

- 8. Regarding Claim 2, Miyakawa discloses the air-current generating means includes a pulsometer rotating device for generating an air current, and the air-current modulating means modulates the air current by changing the rotational speed of the pulsometer in one direction in accordance with the audio signal (Figs. 2, 4-6; column 3, lines 10-41; column 3, line 65 to column 4, line 59).
- 9. Regarding Claim 3, Miyakawa discloses the pulsometer rotating device includes an ultrasonic motor as a driving source and an acoustic pulsometer with low moment and high rigidity (Figs. 2, 4-6; column 3, line 10 to column 4, line 59).
- 10. Regarding Claim 4, Miyakawa discloses the form of blades/material of the pulsometer are asymmetrical with respect to the rotational direction, and the pulsometer reproduces sound waves in normal phase efficiently and can suppress the reproduction of sound waves in inverse phase (Figs. 2, 4-6; column 3, line 10 to column 4, line 59).

11. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 5825901 to Hisey.

12. Regarding Claim 1, Hisey discloses a speaker system, comprising:
air-current generating means for generating an air-current (Figs. 2-8; column 5, line 24 to column 6, line 52) and

air-current modulating means for frequency-modulating the air-current generated by the air-current generating means with an audio signal to which the driving of the air-current generating means is input to generate sound waves in accordance with the audio signal (Figs. 2-8; column 5, line 24 to column 6, line 52).

- 13. Regarding Claim 2, Hisey discloses the air-current generating means includes a pulsometer rotating device for generating an air current, and the air-current modulating means modulates the air current by changing the rotational speed of the pulsometer in one direction in accordance with the audio signal (Figs. 2-8; column 5, line 24 to column 6, line 52).
- 14. Regarding Claim 3, Hisey discloses the pulsometer rotating device includes an ultrasonic motor as a driving source and an acoustic pulsometer with low moment and high rigidity (Figs. 2-8; column 5, line 24 to column 6, line 52).
- 15. Regarding Claim 4, Hisey discloses the form of blades/material of the pulsometer are asymmetrical with respect to the rotational direction, and the pulsometer reproduces sound waves in normal phase efficiently and can suppress the reproduction of sound waves in inverse phase (Figs. 2-8; column 5, line 24 to column 6, line 52).

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16. Regarding Claim 5, Hisey discloses the pulsometer rotating device includes an electromagnetic motor as a driving source and an acoustic pulsometer with low moment and high rigidity (Figs. 2-9; column 5, line 24 to column 6, line 52).

- 17. Regarding Claim 6, Hisey discloses the air-current generating means has a sound absorbing material on the back of a fan for generating air currents (Figs. 2-9; column 5, line 24 to column 6, line 52; column 27, lines 4-9; column 32, lines 20-34).
- 18. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by USPN 4194095 to Doi et al. (hereafter as Doi).
- 19. Regarding Claim 1, Doi discloses a speaker system, comprising:
 air-current generating means for generating an air-current (Figs. 1-2; column 3, lines 1-59; column 4, line 46 to column 5, line 16); and

air-current modulating means for frequency-modulating the air-current generated by the air-current generating means with an audio signal to which the driving of the air-current generating means is input to generate sound waves in accordance with the audio signal (Figs. 1-2; column 3, lines 1-59; column 4, line 46 to column 5, line 16).

20. Regarding Claim 2, Doi discloses the air-current generating means includes a pulsometer rotating device for generating an air current, and the air-current modulating means modulates the air current by changing the rotational speed of the pulsometer in one direction in accordance with the audio signal (Figs. 1-2; column 3, lines 1-59; column 4, line 46 to column 5, line 16).

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

USPN 3936606 to Wanke discloses an acoustic abatement method and apparatus.

22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey P. Chau whose telephone number is 571-272-7514. The examiner can normally be reached on Monday-Friday, 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

March 29, 2007 CPC VIVIAN CHIN SUPERVICUAY PATENT EXAMINER TECHNOLOGY CENTER 2600